FEATURES
- Total safety in case of internal arc: Overpressure is relieved by the pressure relief device (rotation disc) in the top part of the transformer.
- Variety of designs for greater adaptation to client needs.
- Designed to minimize gas volume, pressure and leaks, with a leakage rate <0,5%/year (lower values on request), thus reducing its environmental impact.
- Hermetically sealed to guarantee complete water tightness (each unit is tested individually).
- Insulated under extreme weather conditions, high altitudes, seismic hazard areas, violent winds, etc.
- Online monitoring of the insulation status with a meter alarm.
- Tanks and insulators are designed, manufactured and tested according to international pressure vessel standards.
- Compact design manufactured with minimal energy consumption and environmentally friendly materials.
- Tightness (Each unit is tested individually).
- Quick response, including a continuous improvement plan.
- Advanced development of knowledge management.
- Type test reports issued by KEMA, CESI, LABEIN, LAPEM, REMONDELS.
- Final testing according to specific customer requirements.
- Comprehensive training program by means of seminars, publications, symposiums, etc.
- Different cable glands and accessories available.
- Rack and/or panel mounted. Design to withstand all the needs.
- With companies on four continents and more than 100 sales and technical support offices.
- Active participant in the most important electrical publications, symposiums, etc.
- Compact design manufactured with minimal energy consumption and environmentally friendly materials.
- Quality agreements with utilities.
- Officially homologated in-house testing facilities.
- Officially homologated in-house testing facilities.
- Service agreements with utilities.
- Active participant in the most important electrical publications, symposiums, etc.
- Active participant in the most important electrical publications, symposiums, etc.
- New ultra high voltage transformer.

SERVICE
- With companies on four continents and more than 100 sales and technical support offices.
- Active participant in the most important electrical publications, symposiums, etc.
- Customer-focused, which translates into an after-sales comprehensive assistance plan.
- Quick response, including a continuous improvement plan.
- Comprehensive training program by means of seminars, publications, symposiums, etc.

ARTECHE has the technology and capacities of instrument transformers. Thus we provide the best solution available on the market.

QUALITY
ARTECHE-group follows total quality criteria. We maintain standardized processes and procedures for continuous growth throughout the company worldwide.

MANAGEMENT:
- Quality agreements with utilities.
- Internal and external skill motivation programs.
- Advanced development of knowledge management.

CONTROL:
- Physical/chemical and electrical laboratories for testing of products and components according to international standards.
- Type test results issued by KEMA, CEI, LABEIN, LAPEM, REMONDELS.
- Final testing according to specific customer requirements.

ENVIRONMENT:
- Compact design manufactured with minimal energy consumption and environmentally friendly materials.

GAS INSULATED INSTRUMENT TRANSFORMERS FOR AIR INSULATED SWITCHGEARS
### SF₆ INSULATED CURRENT TRANSFORMERS

- **ADVANTAGES**
  - Robust mechanical strength and reduced size due to compact and light design
  - High-reliability of insulation
  - Advanced creepage distance
  - Reduced visual impact
  - Excellent thermal and mechanical performance due to SF₆ gas insulation

- **APPLICATIONS**
  - Substations: auxiliary services power supply and for measuring and/or protection.
  - Distribution: measurement of primary power directly from HV line in an economic and practical way.

### SF₆ INSULATED VOLTAGE TRANSFORMERS

- **APPLICATIONS**
  - Substations: auxiliary services power supply and for measuring and/or protection.
  - Transmission: measurement of primary power directly from HV line in an economic and practical way.

### POWER VOLTAGE TRANSFORMERS

- **ADVANTAGES**
  - Reliable performance under all operating conditions.
  - High efficiency, providing maximum reliability.
  - Low maintenance requirements.

Power voltage transformers are designed following both instrument transformers and power transformers standards:
- Instrument transformers such as IEC 60076-1, IEC 60044-1, IEC 61869-1.
- Power transformers such as IEC 60429-0, IEC 60429-01-0, IEC 60429-01-1, IEC 60429-02-0, IEC 60429-02-1.

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<tr>
<th>Model CS</th>
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<th>Primary Current (A)</th>
<th>Power (kVA)</th>
<th>Impulse (kVp)</th>
<th>Switching (kVp)</th>
<th>Insulation Level (kV)</th>
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SF₆ INSULATED CURRENT TRANSFORMERS

SF₆ INSULATED VOLTAGE TRANSFORMERS

POWER VOLTAGE TRANSFORMERS

<table>
<thead>
<tr>
<th>Model CS</th>
<th>Rated Voltage (kV)</th>
<th>Primary Current (A)</th>
<th>Power (kVA)</th>
<th>Impulse (kVp)</th>
<th>Switching (kVp)</th>
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<th>Standard Insulation Level (BIL)</th>
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<tr>
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<td>40 (20)</td>
<td>700 x 700</td>
<td>1,500</td>
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</tbody>
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<th>Model UG</th>
<th>Rated Voltage (kV)</th>
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<th>Power (kVA)</th>
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<th>Switching (kVp)</th>
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<th>Standard Insulation Level (BIL)</th>
<th>Dimensions (mm)</th>
<th>Weight (kg)</th>
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<tbody>
<tr>
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<tr>
<td>UG-145</td>
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<td>80</td>
<td>200</td>
<td>40 (20)</td>
<td>800 x 800</td>
<td>2,000</td>
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</tbody>
</table>

**SF₆ INSULATED CURRENT TRANSFORMERS**

- The transformer consists of one or several core-form coils, whose corresponding secondary winding(s) are located in the top part, inside a metal box that acts as the primary HV windings surrounded by SF₆ gas insulation.
- The primary conductors can be fed through lead-in or earthing bushings.
- The secondary conductors run through a low voltage tube to the secondary terminal block.
- SF₆ gas pressure is provided at the bottom part together with a temperature compensated manometer for monitoring gas pressure.

**ADVANTAGES**

- Robust mechanical strength and reduced size due to compact and light design that reduces visual impact.
- Complete and very high accuracy during the transformer’s entire service life (up to 50 years), providing maximum reliability.

**APPLICATIONS**

- Substations: auxiliary services power supply and for measuring and/or protection.
- Transmission: measurement of primary power directly from HV line in an economic and practical way.

**SF₆ INSULATED VOLTAGE TRANSFORMERS**

- Voltage transformers consists of a magnetic core (transformer), a primary terminal, 2 (or more) secondary windings and a bushing.
- The secondary windings are made of heat-resistant electrical wire coated in polyamide resin and a layer of plastic with a high dielectric resistance and excellent thermal and mechanical shock absorption properties.
- They are connected to the primary terminals through the electrical insulation. A filling valve for SF₆ gas is provided on a side of the transformer block, with a temperature compensated manometer for monitoring gas pressure.

**ADVANTAGES**

- High-reliability of insulation. A superior distribution of electric field in primary windings ensures high-reliability against incoming surge voltage.
- Suitable for line-discharge.
- Robust mechanical design and reduced size due to compact and light design that is easy to transport, store and install.
- Consistent and very high accuracy during the transformer’s entire service life (up to 50 years), providing maximum reliability.

**APPLICATIONS**

- Substations: auxiliary services power supply and for measuring and/or protection.
- Transmission: measurement of primary power directly from HV line in an economic and practical way.

**POWER VOLTAGE TRANSFORMERS**

- This type of transformer can supply primary high voltage power to power the secondary connections as well as be connected to the electrical grid.
- The transformers are designed to meet the requirements of SF₆ gas pressure, temperature and other extreme operating conditions.

**ADVANTAGES**

- The conventional solution uses the most economical and reliable material (steel) for the core, requiring lower maintenance costs.
- The transformers have been designed to meet the challenging requirements of rural areas, providing energy power after natural disasters.
- Independent power supply, more flexible as the user does not have to depend on third parties.
- Cost-effective.
- Quick and flexible solution compared to conventional solutions, since there is no need to apply for license, conduct environmental studies, use external databases, etc.,
- Highly reliable power source within the substation.
- Safety for the most critical equipment in the substation (power transformer). Low voltage and auxiliary services are the most unreliable uses. With this solution there is no need to put the power transformer in risk.
- Dual function: it can be used as a power source and as an instrument transformer in a single unit, since it can also be used for metering and/or protection.
- RTD temperature sensors available.

<table>
<thead>
<tr>
<th>Model UG</th>
<th>Rated Voltage (kV)</th>
<th>Primary Current (A)</th>
<th>Power (kVA)</th>
<th>Impulse (kVp)</th>
<th>Switching (kVp)</th>
<th>Insulation Level (kV)</th>
<th>Standard Insulation Level (BIL)</th>
<th>Dimensions (mm)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
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<td>UG-145</td>
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<td>17</td>
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<td>40 (20)</td>
<td>700 x 700</td>
<td>1,000</td>
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<tr>
<td>UG-245</td>
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<td>80</td>
<td>200</td>
<td>40 (20)</td>
<td>800 x 800</td>
<td>2,000</td>
</tr>
</tbody>
</table>

**SF₆ INSULATED CURRENT TRANSFORMERS**

- The transformer consists of one or several core-form coils, whose corresponding secondary winding(s) are located in the top part, inside a metal box that acts as the primary HV windings surrounded by SF₆ gas insulation.
- The primary conductors can be fed through lead-in or earthing bushings.
- The secondary conductors run through a low voltage tube to the secondary terminal block.
- SF₆ gas pressure is provided at the bottom part together with a temperature compensated manometer for monitoring gas pressure.

**ADVANTAGES**

- Robust mechanical strength and reduced size due to compact and light design that reduces visual impact.
- Complete and very high accuracy during the transformer’s entire service life (up to 50 years), providing maximum reliability.

**APPLICATIONS**

- Substations: auxiliary services power supply and for measuring and/or protection.
- Transmission: measurement of primary power directly from HV line in an economic and practical way.
SF₆ INSULATED CURRENT TRANSFORMERS

The transformer consists of one or several cores, with different secondary windings. All parts are located in the top part, inside a metal box that acts as a shielding block. Around this metal tube, there is a high voltage SF₆ insulated tube to the primary terminal. The secondary conductors run through a metal box that acts as a low-voltage shield and secondary windings around it. These windings are made of heat-resisting electric wire coated in synthetic resin and a type of plastic with a high dielectric resistance and excellent thermal and mechanical characteristics to withstand the high temperature and mechanical stresses from the transformer's operation. A filling valve for SF₆ gas is provided on a side of the block together with a temperature compensated manometer for monitoring gas pressure.

ADVANTAGES

› Robust mechanical strength and reduced costs due to a compact and light design that reduces visual impact.
› Independent power supply, more flexible and easy to install (at any point of the metal block) and which reduces visual impact.
› Robust and very high accuracy during the transformer’s entire service life (up to 30 years), providing maximum reliability.

SF₆ INSULATED VOLTAGE TRANSFORMERS

Voltage transformers consist of a magnetic core and secondary windings, both of which are insulated. All windings are made of heat-resisting electric wire coated in synthetic resin and a type of plastic with a high dielectric resistance and excellent thermal and mechanical characteristics to withstand the high temperature and mechanical stresses from the transformer's operation. A filling valve for SF₆ gas is provided on a side of the block together with a temperature compensated manometer for monitoring gas pressure.

ADVANTAGES

› High-reliability of insulation. A superior distribution of electrical field in primary windings ensures high-reliability against incoming surge voltage.
› Suitable for line discharge.
› Robust mechanical strength and reduced size due to a compact and light design that makes it easy to transport, store and install.
› Consistent and very high accuracy during the transformer’s entire service life (up to 50 years), providing maximum reliability.

POWER VOLTAGE TRANSFORMERS

This type of transformer can supply the need for high power voltage and can be connected to a distribution network.

APPLICATIONS

› Substations auxiliary services power supply.
› Distribution stations auxiliary services power supply.
› Power supply for telecommunication and monitoring systems.
› Rural electrification of isolated populations.
› Power supply for telecommunication and monitoring systems.

ADVANTAGES

› The conventional solution used for the previously described applications includes the use of conventional voltage transformer. ARDECHI’s voltage transformer for auxiliary services has the following advantages:
› Commercial benefits. Electrification of isolated rural areas, emergency power after natural disasters.
› Independent power supply, more flexible as the user does not have to depend on third parties.
› Cost effective.
› Quick and flexible solution compared to conventional transformers, since there is no need to apply for licence, conduct environmental studies, use eminent domain, etc.
› Highly reliable power source within the substations.
› Safety for the most critical equipment in the substation (power transformer). Low voltage and auxiliary services are the most vulnerable ones. With this solution there is no risk of overvoltage on the auxiliaries and the transformation can be done directly from the grid on an economic and practical way.

› Automatic start and operating on a single stage, it can also be used for metering and/or protection.

<table>
<thead>
<tr>
<th>Model Code</th>
<th>Highest Voltage (kV)</th>
<th>Rated Insulation Level (kV)</th>
<th>Standard Distance (mm)</th>
<th>Height (mm)</th>
<th>Weight (kg)</th>
<th>Power (VA)</th>
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</thead>
<tbody>
<tr>
<td>CG-300</td>
<td>460</td>
<td>1,050</td>
<td>1260</td>
<td>4,250</td>
<td>450</td>
<td>3,755</td>
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</tr>
<tr>
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<td>650</td>
<td>2,330</td>
<td>2,05</td>
<td>450</td>
<td>3,755</td>
</tr>
</tbody>
</table>

Approximate dimensions and weights. For special requirements, please consult.
SF₆ INSULATED CURRENT TRANSFORMERS

The current transformer consists of one or several coils wound on the corresponding secondary winding. The current carrying parts are located in the top part, inside a metal box that acts as a hermetic seal and is surrounded by SF₆ gas. Insulating.

The primary conductor can be arranged through the center or the edges of the secondary coil. The secondary conductor runs through a low voltage tube to the secondary terminal block. Around this metal tube, there is a high voltage electrode so that the electrical field is properly distributed. A filling valve for SF₆ gas is provided at the bottom part of the transformer so as to permit maintenance for monitoring gas pressure.

ADVANTAGES
- Robust mechanical strength and reduced core size due to a compact and lightweight design (low weight), and which reduces visual impact.
- Suitable for line disconnection. Robust mechanical strength and reduced core size due to a compact and lightweight design (low weight), and which reduces visual impact.
- High insulation capability. Consistent and very high accuracy during the transformer’s entire service life (up to 10 years), providing maximum reliability.

<table>
<thead>
<tr>
<th>Model NO.</th>
<th>Height (mm)</th>
<th>Weight (kg)</th>
<th>Power (VA)</th>
<th>Current (A)</th>
<th>Voltage (kV)</th>
<th>Dimensions</th>
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<td>800</td>
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</table>

SF₆ INSULATED VOLTAGE TRANSFORMERS

Voltage transformers consist of a magnetic core and secondary coil, with air or SF₆ gas insulation. The primary windings are made of heat-resistant electric wire coated in synthetic resin and a layer of synthetic rubber for mechanical resistance and excellent thermal and mechanical performance. The secondary windings are wound on the transformer’s core. A filling valve for SF₆ gas is provided on a side of tank together with a temperature compensated manometer for monitoring gas pressure.

ADVANTAGES
- High-reliability insulation. A superior distribution of electric field in primary windings ensures high-reliability against incoming surge voltages.
- Suitable for line disconnection. Robust mechanical strength and reduced core size due to a compact and lightweight design (low weight), and which reduces visual impact.
- Consistent and very high accuracy during the transformer’s entire service life (up to 10 years), providing maximum reliability.

<table>
<thead>
<tr>
<th>Model NO.</th>
<th>Main Voltage (kV)</th>
<th>Main Current (A)</th>
<th>Impulse (kVp)</th>
<th>Impulse (BIL)</th>
<th>Dimensions</th>
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<td>5,000</td>
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<td>3,000</td>
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</table>

POWDER VOLTAGE TRANSFORMERS

This type of transformer can supply power to high voltage power lines if they have the necessary primary and secondary windings. It is easy to transport, store and install, and has low maintenance and operating costs.

APPLICATIONS
- Substations auxiliary services power supply: as a primary or back-up supply in substations, including areas where there are no distribution lines. It can be used as a tertiary winding connected to a primary transformer for the voltage transformer. It can also be used as an instrument transformer in a single unit, since it can also be used for monitoring and/or protection.

<table>
<thead>
<tr>
<th>Model NO.</th>
<th>Main Voltage (kV)</th>
<th>Main Current (A)</th>
<th>Impulse (kVp)</th>
<th>Impulse (BIL)</th>
<th>Dimensions</th>
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<td>3,000</td>
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</tbody>
</table>
ARTECHE has the technology and capacities of instrument transformers. Thus we provide the best solution available on the market.

FEATURES

› Total safety in case of internal arc: Overpressure is relieved by the pressure relief device (rupture disc) in the top part of the transformer.
› Variety of designs for greater adaptation to client needs.
› Designed to minimize gas volume, pressure and leaks, with a leakage rate <0.5%/year (lower values on request), thus reducing its environmental impact.
› Hermetically sealed to guarantee complete water tightness. Each unit is tested individually.
› Designed to withstand rated voltage with internal arcs, high altitudes, seismic hazard areas, violent winds, etc.
› Online monitoring of the insulation status with a manifold pressure device.
› Offically homologated in-house testing facilities.
› Test reports issued by KEMA, CESI, LABEIN, LAPEM, etc.
› Corrosion resistant design with weather resistant coatings.
› Designed to be transported and stored horizontally or vertically.
› Variety of designs for greater adaptation to client needs.
› Wide range of primary and secondary terminals.
› Each transformer includes a leakage test and a partial discharge test in ARTECHE’s laboratory. 
› Officially homologated in-house testing facilities.

QUALITY

ARTECHE group follows total quality criteria. We maintain standardized process and procedures for continuous growth throughout the company worldwide.

MANAGEMENT:

› ISO 9001:2008
› OHSAS 18001:2007
› Quality agreements with utilities.
› Quality agreements with utilities.
› Advanced development of knowledge management.
› Comprehensive assistance plan.
› Customer-focused, which translates into an after-sales service tailored to client needs.
› Each transformer is routine tested for partial discharges, type test included in the standards.
› Wide range of primary and secondary terminals.
› Each transformer is routine tested for partial discharges, type test included in the standards.
› Advanced development of knowledge management.

CONTROL:

› Physicochemical and electrical laboratories for testing of products and components according to international standards.
› Insulation and accuracy. Designed to withstand all the highest pollution conditions.
› Type test reports issued by KEMA, CESI, LABEIN, LAPEM, etc.
› Compact design manufactured with minimal energy consumption and environmental friendly materials.
› Environmentally friendly materials.
› Environmental commitment.

ENVIRONMENT:

› ISO 14001:2004
› Each transformer is routine tested for partial discharges, type test included in the standards.
› Advanced development of knowledge management.
› Comprehensive assistance plan.
› Customer-focused, which translates into an after-sales service tailored to client needs.
› Each transformer is routine tested for partial discharges, type test included in the standards.
› Advanced development of knowledge management.

SERVICE

› With companies on four continents and more than 100 sales and technical support offices.
› Active participant in the most important electrical congresses and publications, symposiums, etc.
› Advanced development of knowledge management.
› Comprehensive assistance plan.
› Customer-focused, which translates into an after-sales service tailored to client needs.
› Each transformer is routine tested for partial discharges, type test included in the standards.
› Advanced development of knowledge management.

For more detailed information, please visit us at www.arteche.com
FEATURES

> Total safety in case of internal arc: Overpressure is relieved by the pressure relief device (rupture disc) in the top part of the transformer.

> Varieties of designs for greater adaptation to client needs.

> Designed to minimize gas volume, pressure and leaks, with a leakage rate <0.5%/year (lower values on request), thus reducing its environmental impact.

> Hermetically sealed to guarantee complete water tightness (Each unit is tested individually).

> Designed for high temperatures, high altitudes, coastal hazard areas, violent winds, etc.

> Online monitoring of the insulation status with a micro-meter alarm.

> Tanks and insulators are designed manufactured and tested according to international pressure vessel standards.

> Tested according to international pressure vessel standards.

> May be transported and stored horizontally or vertically.

> The silicone rubber insulator guarantees safety during transportation and service as well as best performance at atmospheric gas pressure.

> Designed with weather resistant aluminium hoisting.

> Wide range of primary and secondary terminals.

> Different cable glands and accessories available.

> Each transformer is routine tested by partial discharges, insulation and accuracy. Designed to withstand all the tests included in the standards.

> Compliance to any international standards: IEC, IEEE, UNE, BS, VDE, IEC, CAN, AS, NBR, JIS, GOST NF…

> Officially homologated in-house testing facilities.

QUALITY

> ARTECHE group follows total quality criteria. We maintain standardized process and procedures for continuous growth throughout the company worldwide.

MANAGEMENT:


> Officially homologated in-house testing facilities.

> Type test reports issued by KEMA, CESI, LABEIN, LAPEM, REMSER.

CONTROL:

> Physical/mechanical and electrical laboratories for testing of products and components according to international standards.

> Final testing according to specific customer requirements.

ENVIRONMENT:

> Compact design manufactured with minimal energy consumption and environmental friendly materials.

SERVICE:

> With companies on four continents and more than 100 sales and technical support offices.

> Active participant in the most important electrical organizations: IEC, IEEE, CIGRE, CIRED, ASINEL, etc.

> Customer focused, which translates into an after-sales service without comparison.

> Quick response, including a continuous improvement plan.

> Comprehensive training program by means of seminars, publications, symposiums, etc.

ARTECHE has the technology and capacities of instrument transformers. Thus we provide the best solution available on the market.